### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

### (19) World Intellectual Property Organization

International Bureau



# 

(43) International Publication Date 27 February 2003 (27.02.2003)

### (10) International Publication Number WO 2003/016669 A3

(51) International Patent Classification7: 43/00

E21B 19/16.

(21) International Application Number:

PCT/US2002/024399

- (22) International Filing Date: 1 August 2002 (01.08.2002)
- (25) Filing Language:

(26) Publication Language:

English

(30) Priority Data: 60/313,453

20 August 2001 (20.08.2001) US

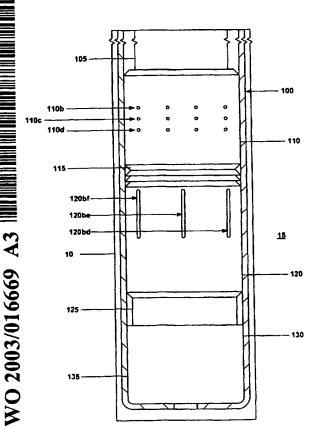
- (71) Applicant (for all designated States except US): EVEN-TURE GLOBAL TECHNOLOGY [US/US]; 16200 A Park Row, Houston, TX 77084 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): WATSON, Brock,

Wayne [US/US]; 2535 Marsh Lane #1004, Carrollton, TX 75006 (US). RING, Lev [RU/US]; 14126 Heatherhill Place, Houston, TX 77077 (US). BRISCO, David, Paul [US/US]; 405 Westridge Drive, Duncan, OK 73533 (US).

- (74) Agents: MATTINGLY, Todd et al.; Haynes and Boone, LLP, Suite 4300, 1000 Louisiana Street, Houston, TX 77002-5012 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: APPARATUS FOR RADIALLY EXPANDING TUBULAR MEMBERS INCLUDING A SEGMENTED EXPANSION



(57) Abstract: An apparatus for radially expanding tubular members including a segmented expansion cone.

## 

European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

#### Published:

with international search report

(88) Date of publication of the international search report: 10 June 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/24399

		PC1/USUZZ439	7
A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : E21B 19/16; 43/00			
US CL : 166/380, 207			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
U.S.: 166/380, 207, 209, 212, 216, 217			
· · · · · · · · · · · · · · · · · · ·			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
·			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap	propriete of the relevant passages	Relevant to claim No.
		<u> </u>	
х	US 4,420,866 A (MUELLER) 20 December 1983 (2	0.12.83), figure 1.	1, 6, 8, 11, 13
Y			4
			i
x	US 6,085,838 A (VERCAEMER et al.) 11 July 2000	(11.07.00), figures 5-7.	8
Y			4
			1
[			
1			
			ľ
			i i
i l			
١.			
1			
			•
Further	documents are listed in the continuation of Box C.	See patent family annex.	
Special categories of cited documents:     T" later document published after the international filling date or priority			international filing date or priority
date and not in conflict with the application but cited to understand the			
"A" document defining the general : tate of the art which is not considered to be principle or theory underlying the inve			nvention
of particu	ilar relevance	"X" document of particular relevance;	he claimed invention cannot be
"E" earlier ap	polication or patent published on or after the international filing date		idered to involve an inventive step
when the document is taken alone			•
	t which may throw doubts on priority claim(s) or which is cited to		
	the publication date of another citation or other special reason (as	"Y" document of particular relevance; is considered to involve an inventive	
specified)	)		auch documents, such combination
"O" document referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in	
and a second of the second of		***	<b>6</b> 11
"P" document published prior to the international filing date but later than the		"&" document member of the same pair	em imply
priority date claimed			
Date of the actual completion of the international search  Date of mailing of the international search report			
ZUFEB ZUU4			
	er 2002 (24.09.2002)	<u> </u>	-
	ailing address of the ISA/US	Anthorized Officer	,
Commissioner of Patents and Trademarks		David Bagnett	•
Box PCT Washington, D.C. 20231			
4	o. (703)305-3230	Telephone No. (703) 308-1113	
	, - ,	I.	

Form PCT/ISA/210 (second sheet) (July 1998)